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PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AND STREET LIGHTING AT THE INTERSECTION OF MD 43 (WHITE MARSH BLVD.) AND CROSSROADS CIRCLE IN BALTIMORE COUNTY. MD 43 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE TRAFFIC SIGNAL WILL OPERATE IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE WITH LEAD-LAG EXCLUSIVE LEFT TURN PHASES FOR MD 43 AND SIDE STREET SPLIT PHASING.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH TWO (2), FOUR-CHANNEL, TIME-DELAY-OUTPUT DETECTOR AMPLIFIERS AND VIDEO DETECTION INTERFACE EQUIPMENT HOUSED IN A NEMA "6" BASE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE MSHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION, THE CONTRACTOR MUST PROVIDE MR. SNYDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.

EQUIPMENT LIST "A"

A EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

DESCRIPTION

<u>ITEM NO.</u>

NONE

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

<u>QUANTITY</u>	<u>DESCRIPTION</u>
LS	MAINTENANCE OF
5 CY	TEST PIT EXCAVA
220 LF	24 IN WHITE HEA

4 EA

MAINTENANCE OF TRAFFIC TEST PIT EXCAVATION

24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING 275 LF 12 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING

1 EA CONTROLLER AND CABINET - BASE MOUNT 1 EA VIDEO INTERFACE EQUIPMENT

2 EA FOUR-CHANNEL, TIME- DELAY-OUTPUT LOOP DETECTOR AMPLIFIER

49 EA 12 IN. LED SIGNAL HEAD SECTION 22 ÇY CONCRETE FOUNDATION FOR SIGNAL

QUANTITY

27 FT. MAST ARM POLE & 70 FT. MAST ARM

15 FT. LIGHTING ARM WITH 250 WATT HPSV LUMINAIRE ELECTRICAL HANDHOLE

12 EA 10 LF 2 IN SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED 2 IN SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED 25 LF

35 LF 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED 135 LF 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT- BORED 890 LF

4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED

475 LF 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT- BORED

4 EA VIDEO DETECTION CAMERA AND CABLE 1 EA METERED SERVICE PEDESTAL EMBEDDED

25 LF ELECTRICAL CABLE 1 - CONDUCTOR (NO. 4 A.W.G.) - THHN /THWN

130 LF ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.) 2740 LF ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.) 925 LF ELECTRICAL CABLE 2 - CONDUCTOR (NO. 12 A.W.G.) TRAY CABLE

560 LF STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

6 EA 3/4 IN. X 10 FT, GROUND ROD 4 EA NON-INVASIVE MICRO-LOOP PROBE

4 EA D-3(1) (VAR X 16") DUAL FACE SIGN - MAST ARM MOUNT

2 EA SHIELD ASSEMBLY (36" X 75") - POLE MOUNT

2 EA SHIELD ASSEMBLY (24" X 51") - POLE MOUNT 5 EA

R3-5L (30" X 36") SIGN - MAST ARM MOUNT 780 LF 5 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING

* 70 LF FURNISH AND INSTALL STANDARD TYPE A COMBINATION CURB AND GUTTER

* 190 LF FURNISH AND INSTALL STANDARD TYPE A CURB (NO GUTTER)

* 750 SF FURNISH AND INSTALL 5 IN. CONCRETE SIDEWALK

120 SF FURNISH AND INSTALL DETECTABLE WARNING SURFACES

* INCLUDES REMOVAL OF EXISTING

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

QUANTITY

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MS. ERIN KUHN MR. ANDRE FUTRELL ASSISTANT DISTRICT ENGINEER - MAINTENANCE

ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 229-2380

MR, MICHAEL PASQUARIELLO UTILITY ENGINEER (410) 229-2341

(410) 787-7630

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR. CHIEF, TRAFFIC OPERATIONS

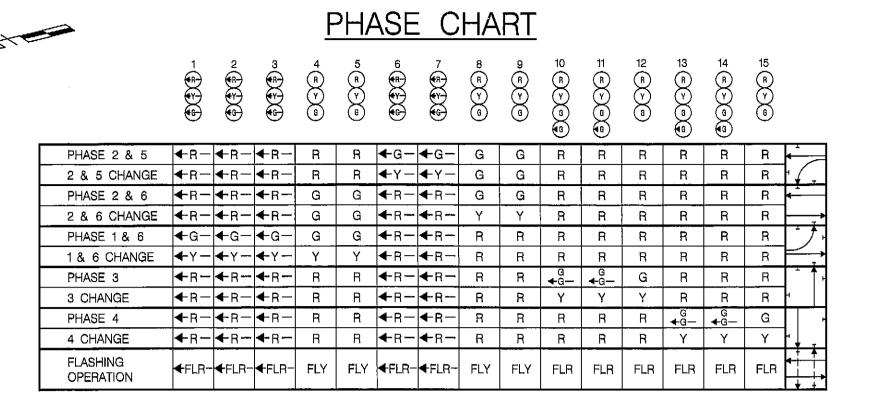
MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS (410) 787-7676

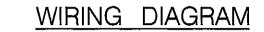
(410) 229-2361

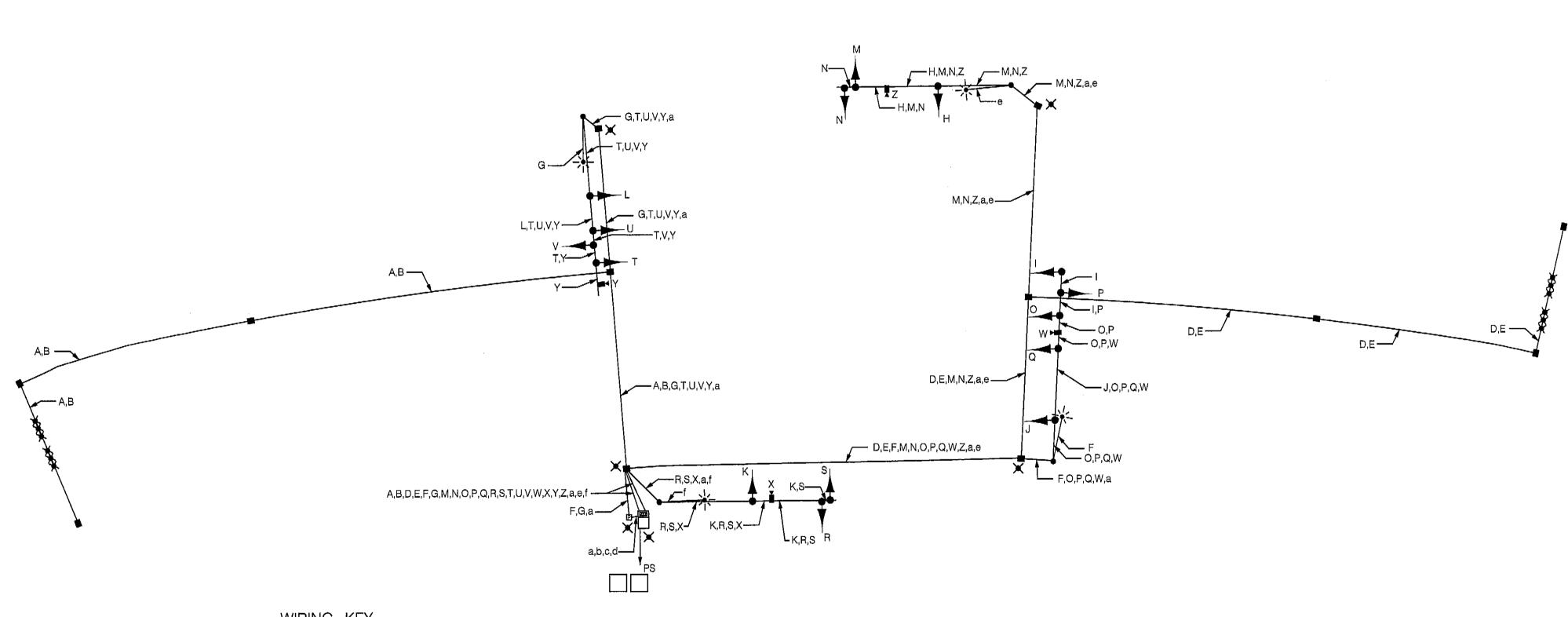
MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS (410) 787-7631

MR. MIKE STOCKER SUPPLY OFFICE SIGNAL SHOP WAREHOUSE (410) 787-7668

MR. ED RODENHIZER CHIEF - SIGNAL OPERATIONS SECTION (410) 787–7652







WIRING KEY

MICRO-LOOP PROBE LEAD-IN 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) TRAY CABLE 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) VIDEO DETECTION CABLE STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.) 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.) MICRO-LOOP PROBE PROPOSED ELECTRIC SERVICE

GROUND ROD

METER SERVICE PEDESTAL

DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

MD 43 (WHITE MARSH BOULEVARD) AND CROSSROADS CIRCLE /MARKET WAY

GENERAL INFORMATION PLAN

DATE ____9-12-2011

STATE OF MARYLAND

TRAFFIC CONCEPTS, INC.

325 Gambrills Road Suite B Gambrills, MD 21054 (410) 923-7101 FAX: (410) 923-6473 EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

DESIGNED BY J.K. SCHMID CHECKED BY DRAWING NO. TS-4744 GI

SCALE NONE

BALTIMORE 03043007.33 LOGMILE K-228 T.I.M.S. NO. TOD NO. SHEET NO. 2 OF 2

CONTRACT NO. BW996M82

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